Standards for Digital Map Submissions

TOWN OF NEWTOWN, CT
Effective April 14, 2003

G.I.S.
Geographic Information Systems

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If maps were created using Computer Aided Design (CAD), or equivalent, software then a "GIS Supplemental Map" in a digital format shall be submitted. The "GIS Supplemental Map" shall conform to the standards as set forth by the "Connecticut Association for Land Surveyors (CALS) G.I.S. Basemapping Layer Standards And Categories" for 1"=100' GIS mapping. This map shall be delivered in the Connecticut State Plane coordinate system NAD83 horizontal datum, in a vertical datum of NAVD88, in units of US Survey Feet, and in a "Preferred Digital Data Format." Surveyors may use appropriate means to cast the survey map into Connecticut State Plane NAD83 NAVD88 US Survey Feet as long as it is deemed correct for the scale of the map.

If the survey maps were NOT created using Computer Aided Design, or equivalent, software then a "GIS Supplemental Map" shall be submitted in hardcopy form at a scale of 1"=100.' This submission must show at least three coordinate pairs referenced to the Connecticut State Plane coordinate system, NAD83 datum, in units of US Survey Feet, and in a vertical datum of NAVD88. The X, Y, and Z coordinates must be shown on the map. This map shall conform to the standards set forth for A-2 horizontal and V-3 vertical surveys as indicated in the CGS Sections 20-300b-1 to 20-300b-20.

If the project area encompasses an area greater then 50 acres, then at least three coordinate pairs shall be shown. These coordinate pairs shall be incorporated into the Connecticut State Plane NAD83 coordinate system. These coordinate pairs shall be set as permanent markers in the ground. These bench marks must be shown on the GIS supplemental map and the X, Y, and Z coordinates must be shown.

Data to be submitted on the "GIS Supplemental Map" shall include parcel geometry, stone walls, easements, rights of way, wells, fire suppression tanks, hydrants, water mains, foliage limits, houses, pools, tennis courts, decks, patios, driveways, roads, accessways, culverts, bridges, catch basins, wetlands, ponds, FEMA 100 year flood boundaries, watercourses, septic systems and sewer infrastructure.

Preferred Digital Data Formats

GIS Digital File: ArcInfo Coverage (Arc Interchange E00)
CAD Digital File: AutoCAD DWG up to AutoCAD 2000 (preferred), Microstation DGN up to Version 7, and all ASCII, binary, and partial drawing interchange files (DXF) that comply with the DXF standard.
Coordinate System: Connecticut State Plane (FIPS 0600)
Units: US Survey Feet
Horizontal Datum: North American Datum 1983 (NAD 83)
Spheroid: Geographic Reference System 1980 (GRS 80)
Vertical Datum: North American Vertical Datum 1988 (NAVD 88)
Units: Mean Sea Level (MSL) Feet